

# Epion Air manual

CO<sub>2</sub>-monitor for home and office use



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## EU declaration of conformity



We, SenseZo B.V., declare that this product, when used as intended, according to these instructions, complies with the essential requirements of the relevant EU directives. A copy of the European declaration of conformity can be requested through [info@epion.nl](mailto:info@epion.nl)




Used electronics and electronic devices contain valuable materials, do not throw them in the trash.

## Precautions & security

- ⚠ Never bring the product into contact with liquids and do not use the product if it is damaged. Use only the supplied adapter.
- ⚠ The product displays an indicative value of indoor air quality based on the CO<sub>2</sub> level at room temperature and under normal conditions. The measured values are explicitly **not** intended to serve as personal protection, for any medical application, or for personal safety in business or other situations.
- ⚠ The device measures carbon dioxide (CO<sub>2</sub>), not carbon monoxide (CO). The product is therefore explicitly **not** suitable as a protective device when using gas boilers or open fireplaces.

## Manual

### Configuring your device

1. Unpack the Epion Air and put it in the desired place. Connect the Epion Air using the micro-usb cable and adapter, put the plug into the socket.
2. The device will boot now and perform a short calibration. Once that is completed the various measurements are shown on the device. Additionally a QR-code (qubic barcode) is shown on the screen.  
**Caution!** This code will remain visible, also when the device loses power. Always check whether or not the device's light is on.
3. Install the Epion app on your mobile phone or tablet, the shortcuts to the different app stores can be found on <https://epion.nl/app>.
4. Open the app and log in. When you do not have an account yet you can easily create one through <https://epion.nl/register>.
5. Press the  symbol on the bottom right on the screen.

This will start the camera on your phone or tablet. Use this to scan the QR-code on the devices' screen.

6. Select the desired WiFi-network to connect with, fill in the password and press 'Verstuur'.
7. The device is now connected to your account and will be included in the overview of the devices you own. It may take some time before your new device shows up in this list.

Congratulations! Your new device is now ready to be used. Your devices' screen will fully turn off and on once, then the device will connect with the internet. The device will now show up in your device list.

## Frequently asked questions

- Where is the best place in the room to put the device?
  - We recommend placing the device in the centre of the room. For optimal measurements, locations close to a source of fresh air are best avoided, as this can result in readings that are too low for the room as a whole.
- The WiFi network cannot be found
  - Scan the QR-code (cubic barcode) again through the app and verify the WiFi password you entered.
- The device does not respond and no light is on.
  - Check that the USB cable is firmly connected to both the device and the USB power adapter, and that the power adapter is receiving power. Due to the type of display used, the screen will retain its image during a power outage but will no longer be updated.
- My device has a poor WiFi connection.
  - Immediately after first use, the device may indicate that the signal strength is low. When the connection is poor, the device will automatically try to connect to another WiFi station; this can take a moment. If connection problems persist, we recommend placing the device closer to a WiFi station.
- The screen of my device occasionally goes completely black
  - This is exactly as it should be! It is required to keep the screen functioning properly for as long as possible and to prevent ghosting from older images.
- My monitor shows high values at first use, why is that?
  - Due to vibrations and humidity during transport, the monitor may show values that are too high or too low at first use. The Epion Air is equipped with automatic calibration. This means that once every 8 days a calibration is performed automatically, after which the readings will be corrected.
- My question is not on this list.
  - Is your question not listed? Then take a look at [the frequently asked questions](#) on the website. Still haven't found what you were looking for? Contact our customer service at [help@epion.nl](mailto:help@epion.nl) or via the website at <https://epion.nl/help>

## Button

The device has 1 button at the back of the enclosure. It can be used for the following functions:

### Resetting the device to factory settings

To activate this function, first disconnect the device from power. Then press and hold the button, reconnect the device to power and keep the button pressed for another 10 seconds. After that, when you release the button, the device will restart and show a QR-code to let it connect to WiFi again.

## LED indicator

LED colour	Behaviour	Description
Green	On	The measured value of the CO <sub>2</sub> sensor is at or below 1000 PPM, the air quality is good.
Orange	On	The measured value of the CO <sub>2</sub> sensor is between 1000 and 1400 PPM, the concentration of CO <sub>2</sub> is moderate. Consider ventilating.
Red	On	The measured value of the CO <sub>2</sub> sensor is above 1400 PPM, the air quality is poor. Ventilation is urgently advised.
Blue	On	The device is starting up. It takes a few minutes before CO <sub>2</sub> values are shown on the screen.
Off	-	When the LED indicator gives no light, the Epion Air is off; check that the cable is properly connected and the adapter is correctly plugged into the socket.

## Technical specifications

<b>General information</b>	
Type number	LL1, LL1-PM
Operating temperature	0 - 50 degrees Celsius, non-condensing
Storage temperature	0 - 50 degrees Celsius, non-condensing
Application	Office environments, commercial spaces, home use.
Power supply	Micro-usb type B male plug, 5V, 1.0A maximum current consumption.
Number of buttons	1
LED indicators	1
Alarm functions	Blinking LED in different colours, audio signal through buzzer.
Dimensions	8.2 x 7.4 x 1.8 cm (width, height, depth) or up to 8.5 x 7.4 x 4.0 cm (certain versions)
Placement	Standing on a flat surface, wall mounting using 2 screw holes or using an (optional) mounting bracket.
Display	5.4 centimetres diagonal (2.13")
<b>Connectivity</b>	
WiFi	2.4GHz, 802.11b/g/n
Bluetooth	V4.2 with support for Bluetooth Low Energy
<b>CO<sub>2</sub> sensor</b>	
Sensor type	non-dispersive infrared (NDIR)
Accuracy	40ppm ±3% of the measured value

Repeatability	>97%
Calibration	Automatic based on detected baseline concentration (ABC).
Measuring range	400-5000 ppm
<b>Temperature sensor</b>	
Measuring range	-40 - 85 degrees Celsius
<b>Hygrometer</b>	
Measuring range	0 - 100% relative humidity
Accuracy	±3% of the measured value
<b>Barometer</b>	
Measuring range	300 - 1100 hPa
Accuracy	±0.25%
<b>Particulate matter sensor (selected versions, LL1-PM)</b>	
Detected particles	PM2.5, PM10
Accuracy	70% of 0.3 µm particles, 98% of 5 µm particles